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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/760,136	01/12/2001	Stephen Nuss	990356.ORI	2264	
23595	595 7590 05/05/2005		EXAMINER		
	MERSEREAU, P.A. AVENUE SOUTH		FOREMAN, JONATHAN M		
SUITE 820			ART UNIT	PAPER NUMBER	
MINNEAPOL	LIS, MN 55402		3736		
		· ·		DATE MAILED: 05/05/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		•	ℓ) .			
4		Application No.	Applicant(s)			
Office Action Summary		09/760,136	NUSS, STEPHEN			
		Examiner	Art Unit			
_		Jonathan ML Foreman	3736			
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with the	correspondence address			
THE I - Exter after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a rep period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statutively received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be by within the statutory minimum of thirty (30) dwill apply and will expire SIX (6) MONTHS froe, cause the application to become ABANDON	timely filed ays will be considered timely. m the mailing date of this communication. IED (35 U.S.C. § 133).			
Status						
1) 又	Responsive to communication(s) filed on 14 M	March 2005.				
•	This action is FINAL . 2b) This action is non-final.					
3)	· · · · · · · · · · · · · · · · · · ·					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4)⊠	Claim(s) <u>12,16-20 and 24-27</u> is/are pending in	n the application.	•			
• —	4a) Of the above claim(s) is/are withdrawn from consideration.					
	5) Claim(s) is/are allowed.					
'=	☐ Slaim(s) 12,16-20 and 24-27 is/are rejected.					
•	7) Claim(s) is/are objected to.					
•	Claim(s) are subject to restriction and/	or election requirement.	•			
Applicat	ion Papers					
91□	The specification is objected to by the Examin	er.				
	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
. 4/1_3	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority :	under 35 U.S.C. § 119					
•	Acknowledgment is made of a claim for foreig	n priority under 35 H S C & 110/	(a) (d) or (f)			
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureaction for a lise	nts have been received. Its have been received in Applica ority documents have been recei au (PCT Rule 17.2(a)).	ation No ived in this National Stage			
		•				
Attachmer	nt(s)					
· <u>—</u>	ce of References Cited (PTO-892)	4) 🔲 Interview Summa Paper No(s)/Mail				
3) Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date	Patent Application (PTO-152)				
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DETAILED ACTION

Claim Objections

Claim 12 is objected to because of the following informalities: line 1 states "adopted".
 Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 12, 16 20 and 24 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 4,776,330 to Chapman et al. in view of U.S. Patent No. 6,132,389 to Cornish et al.

In regards to claims 12, 16 – 20 and 24 – 27, Chapman et al. discloses a guidewire capable of insertion into a vascular system of a patient during the course of a catheterization procedure having approximately 78% titanium, 11.5% molybdenum, 6% zirconium and 4.5% tin by weight (Col. 4, lines 16 – 23; Col. 11, line 67 – Col. 12, line 2; Col. 13, lines 61 – 63), but fails to disclose the guidewire having a tapered distal end portion, a helical coil attached to the distal end, a rounded distal tip member on the distal end, a polymeric or a hydrophilic coating, or a diameter in the range of 0.005 inch and 0.040 inch. However, Cornish et al. discloses a guidewire having a tapered distal end portion (18), a helical coil (20) attached to the distal end, a rounded distal tip member (58) on the distal end, a polymer coating and a hydrophilic coating (Col. 3, lines 50 – 60), and a diameter in the range of 0.005 inch and 0.040 inch (Col. 4, lines 19 – 28). It would have been obvious to one

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having ordinary skill in the art at the time the invention was made to modify the guidewire as disclosed by Chapman et al. to include a tapered distal end portion as taught by Cornish et al. in order to increase the flexibility of the distal end of the guidewire. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the guidewire as disclosed by Chapman et al. to include a helical coil attached to the distal end as taught by Cornish et al. in order to facilitate fluoroscopic viewing of the device while in use and to increase the diameter of the distal section without adding substantial stiffness to the section (Col. 4, lines 36 - 45). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the guidewire as disclosed by Chapman et al. to include a rounded distal tip member on the distal end as taught by Cornish et al. in order to attach the helical coil to the guidewire and o further smooth the transition from the guidewire to the helical coil (Col. 5, lines 5 - 12). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the guidewire as disclosed by Chapman et al. to include a polymeric or a hydrophilic coating as taught by Cornish et al. in order to increase the lubricity of the guidewire (Col. 3, lines 50 - 60). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the diameter of the guidewire as disclosed by Chapman et al. to be in the range of 0.005 inch and 0.040 inch as taught by Cornish et al. or to be any diameter as since applicant has not disclosed that using a diameter in the range of 0.005 inch and 0.040 inch provides any advantage, or solves a stated problem, or is used for any particular purpose. Furthermore, a change in the size of a prior art device is a design consideration within the skill of the art. In re Rose, 220 F.2d 459, 105 USPQ 237 (CCPA 1955).

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4. Claims 12, 16 – 20 and 24 – 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,132,389 to Cornish et al. in view of U.S. Patent No. 4,776,330 to Chapman et al.

In regards to claims 12, 16 – 20 and 24 – 27, Cornish et al. discloses an intravascular guidewire adapted for insertion into the vascular system of a patient during the course of a catheterization procedure (Col. 1, lines 20 – 67) having a tapered distal end portion (18), a helical coil (20) attached to the distal end, a rounded distal tip member (58) on the distal end, a polymer coating and a hydrophilic coating (Col. 3, lines 50-60), and a diameter in the range of 0.005 inch and 0.040 inch (Col. 4, lines 19-28). Cornish et al. discloses the wire being formed of a titanium alloy but fails to disclose the titanium alloy being a titanium molybdenum alloy having approximately 78% titanium, 11.5% molybdenum, 6% zirconium and 4.5% tin by weight. Chapman et al. discloses a guidewire capable of insertion into a vascular system of a patient during the course of a catheterization procedure having approximately 78% titanium, 11.5% molybdenum, 6% zirconium and 4.5% tin by weight (Col. 4, lines 16 – 23; Col. 11, line 67 – Col. 12, line 2; Col. 13, lines 61 – 63), It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the titanium alloy as disclosed by Cornish et al. to include a titanium molybdenum alloy having approximately 78% titanium, 11.5% molybdenum, 6% zirconium and 4.5% tin by weight as taught by Chapman et al. in order to provide a resilient, physiologically inert guidewire (Col. 4, lines 16 - 23).

Response to Arguments

5. Applicant's arguments filed 12/20/04 have been fully considered but they are not persuasive. Applicant has asserted that Chapman et al. does not disclose a guidewire having approximately 78% titanium, 11.5% molybdenum, 6% zirconium and 4.5% tin by weight. However,

the Examiner disagrees. Applicant acknowledges that Chapman et al. states that the components of the kit of the invention are made from a physiologically-inert titanium-based alloy, i.e. 78% titanium, 11.5% molybdenum, 6% zirconium and 4.5% tin by weight (Col. 4, lines 16 – 19). Chapman et al. further states that all of the implants shown in the various embodiments are made of a resilient, physiologically-inert titanium-based alloy (Col. 11, line 67 – Col. 12, line 2). At Col. 13, lines 60 – 63, Chapman et al. states that the guidewire could be left in place as part of the implanted elongated implant. Therefore, since the guidewire is disclosed a part of the implant, the guidewire is disclosed as being formed of the claimed alloy.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonathan ML Foreman whose telephone number is (571)272-4724. The examiner can normally be reached on Monday - Friday 8:00 am - 4:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Max Hindenburg can be reached on (571)272-4726.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

√JMLF

MAX F. HINDENBURG

HISORY PATENT EXAMINER

HISORY CENTER 3700